

WHAT IS CLAIMED IS:

1. An information processing apparatus comprising:

storage means for storing a pre-set processing unit on which can be pasted the object information of different attributes and the time information in association with each other; and

regenerating means for regenerating the state of said pre-set processing unit associated with a desired date and time based on said time information.

2. The information processing apparatus according to claim 1

wherein

said storage means stores the entire information relevant to said pre-set processing unit at a time point.

3. The information processing apparatus according to claim 1 further comprising:

difference computing means for computing a difference between the information concerning said pre-set processing unit at a first time point and the information concerning said pre-set processing unit at a second time point;

said storage means storing the difference information; and

said regenerating means regenerating the state of said pre-set processing unit based on said time information and said difference information.

4. The information processing apparatus according to claim 1 further comprising:

hysteresis acquisition means for acquiring the hysteresis of the operation on said pre-set processing unit;

said storage means storing the information on the operation hysteresis; and  
said regenerating means regenerating the state of said pre-set processing unit  
based on said time information and said information on the operation hysteresis.

5. The information processing apparatus according to claim 1 wherein said storage means effects storage at regular intervals.
6. The information processing apparatus according to claim 1 wherein said storage means effects storage at a time point when the state of said pre-set processing unit is changed.
7. The information processing apparatus according to claim 1 wherein said object information of different attributes is the text information, speech information and the picture information inclusive of moving pictures;  
said regenerating means displaying said tag sheet on a display picture of said display device.
8. An information processing method comprising:
  - a storage step of storing a pre-set processing unit on which can be pasted the object information of different attributes and the time information in association with each other; and
  - a regenerating step of regenerating the state of said pre-set processing unit associated with a desired date and time based on said time information.
9. The information processing method according to claim 8 wherein

said storage step stores the entire information relevant to said pre-set processing unit at a time point.

10. The information processing method according to claim 8 further comprising:
  - a difference computing step of computing a difference between the information concerning said pre-set processing unit at a first time point and the information concerning said pre-set processing unit at a second time point;
  - said storage step storing the difference information; and
  - said regenerating step regenerating the state of said pre-set processing unit based on said time information and said difference information.
11. The information processing method according to claim 8 further comprising:
  - a hysteresis acquisition step of acquiring the hysteresis of the operation on said pre-set processing unit;
  - said storage step storing the information on the operation hysteresis; and
  - said regenerating step regenerating the state of said pre-set processing unit based on said time information and said information on the operation hysteresis.
12. The information processing method according to claim 8 wherein  
said storage step effects storage at regular intervals.
13. The information processing method according to claim 8 wherein  
said storage step effects storage at a time point when the state of said pre-set processing unit is changed.
14. The information processing method according to claim 8 wherein said object

information of different attributes is the text information, speech information and the picture information inclusive of moving pictures;

    said regenerating step displaying said tag sheet on a display picture of said display device.

15. A medium for permitting an information processing apparatus to execute a program including a storage step of storing a pre-set processing unit on which can be pasted the object information of different attributes and the time information in association with each other; and a regenerating step of regenerating the state of said pre-set processing unit associated with a desired date and time based on said time information.

16. The information processing apparatus according to claim 1 wherein said regenerating means includes

    time display means for displaying the time;

    time interval displaying means for displaying a plurality of time intervals;

    selection means for selecting a desired time interval from said time intervals displayed on said time interval displaying means; and

    control means for controlling the display state of said pre-set processing unit and time display on said time display means responsive to the time interval selected by said selection means.

17. The information processing apparatus according to claim 16 wherein said time interval displaying means displays a plurality of pre-set constant time intervals as said plural time intervals.

18. The information processing apparatus according to claim 17 wherein said time interval displaying means displays variable time intervals with a pre-set changing point as a unit.

19. The information processing apparatus according to claim 16 wherein said control means controls the amount of change of the time display on said time display means with a variable speed based on a command from outside.

20. The information processing apparatus according to claim 19 wherein said control means controls the amount of change of the time display on said time display means with acceleration based on an acceleration command from outside.

21. The information processing apparatus according to claim 16 wherein said control means controls the time display color responsive to the time interval selected by said selection means.

22. The information processing apparatus according to claim 16 further comprising:  
    retrieving means for retrieving the information of a pre-set processing unit associated with the time information from said storage means based on the time displayed on said time display means.

23. The information processing apparatus according to claim 22 further comprising:  
    retrieving result regenerating means for regenerating the state of said pre-set processing unit based on said information of said pre-set unit retrieved from said storage means by said retrieving means.

24. The information processing apparatus according to claim 23 wherein said object

information of different attributes is the text information, speech information and the picture information including moving pictures;

    said pre-set processing unit is data for displaying a tag sheet on a display picture of a display device; and wherein

    said retrieving result regenerating means displays said tag sheet on a display picture of a display device.

25. The information processing method according to claim 8 including  
    displaying the time;

    displaying a plurality of time intervals;

    selecting a desired time interval from displayed time intervals; and

    controlling the display state of said pre-set processing unit and time display responsive to the selected time interval.

26. The information processing method according to claim 25 wherein a plurality of pre-set constant time intervals are displayed as said plural time intervals.

27. The information processing method according to claim 26 variable time intervals are also displayed with a pre-set changing point as a unit.

28. The information processing method according to claim 25 wherein the amount of change of the time display on said time display means is controlled with a variable speed based on a command from outside.

29. The information processing method according to claim 28 wherein the amount of change of the time display on said time display means is controlled with acceleration

based on an acceleration command from outside.

30. The information processing method according to claim 25 wherein the time display color is controlled responsive to the time interval selected by said selection means.

31. The information processing method according to claim 25 wherein the information of a pre-set processing unit associated with the time information from said storage means is retrieved based on the time displayed on said time display means.

32. The information processing method according to claim 31 wherein the state of said pre-set processing unit based on the retrieved information of said pre-set unit.

33. The information processing method according to claim 32 wherein said object information of different attributes is the text information, speech information and the picture information including moving pictures;

    said pre-set processing unit is data for displaying a tag sheet on a display picture of a display device; and wherein

    said tag sheet is displayed on a display picture of a display device.

34. A medium for permitting an information processing apparatus to execute a program according to claim 15 including

    displaying the time;

    displaying a plurality of time intervals;

    selecting a desired time interval from displayed time intervals; and

    controlling the display state of said pre-set processing unit and time display

responsive to the selected time interval.

35. The information processing apparatus according to claim 1 further comprising:  
rotatable operating means;  
said regenerating means controlling the time axis of the display state of the pre-set processing unit based on an operating signal corresponding to rotational actuation of said operating means.

36. The information processing apparatus according to claim 35 wherein  
said regenerating means controls the time axis increasing/decreasing interval of the display state of the pre-set processing unit based on an operating signal corresponding to rotational actuation of said operating means.

37. The information processing apparatus according to claim 35 wherein  
said regenerating means variably controls time axis variation of the display state of said pre-set processing unit based on an operating signal corresponding to the speed of rotational actuation of said operating means.

38. The information processing apparatus according to claim 35 wherein  
said operating means includes a first operating portion associated with said rotational actuation and a second operating portion associated with movement actuation in one direction;

    said regenerating means changing the display state of said pre-set processing unit responsive to an operating signal corresponding to movement actuation in said one direction by said second operating portion of said operating means.

39. The information processing apparatus according to claim 35 wherein  
said operating means includes a first operating portion associated with said  
rotational actuation and a second operating portion associated with movement  
actuation in one direction;

    said regenerating means changing the control function of the time axis of the  
display state of said pre-set processing unit derived from an operating signal  
corresponding to rotational actuation by said first operating portion of said operating  
means responsive to an operating signal corresponding to movement actuation by said  
second operating portion of said operating means.

40. The information processing apparatus according to claim 35 wherein

    said processing means reverses the control of the time axis of the display state  
of said pre-set processing unit derived from an operating signal corresponding to  
rotational actuation from said operating means responsive to a pre-set key operation.

41. The information processing apparatus according to claim 35 further comprising:

    retrieving means for retrieving the information of the pre-set processing unit  
corresponding to said time information from said storage means based on an operating  
signal corresponding to rotational actuation of said operating means.

42. The information processing apparatus according to claim 41 wherein

    said storage means stores said pre-set unit, in which the object information of  
different attributes can be pasted, in association with the time information;

    the information processing apparatus further comprising:

retrieval result regenerating means for regenerating the state of said pre-set processing unit based on the information of said pre-set unit retrieved from said storage means by said retrieval means.

43. The information processing method according to claim 42 wherein said object information of different attributes is the text information, speech information and the picture information including moving pictures;

    said pre-set processing unit is data for displaying a tag sheet on a display picture of a display device; and wherein

    said retrieval result regenerating means displays said tag sheet on a display picture of a display device.

44. The information processing method according to claim 8 further comprising:

    controlling the time axis of the display state of the pre-set processing unit based on an operating signal corresponding to rotational actuation of rotatable operating means.

45. The information processing method according to claim 44 wherein

    the time axis increasing/decreasing interval of the display state of the pre-set processing unit is controlled based on an operating signal corresponding to rotational actuation of said rotatable operating means.

46. The information processing method according to claim 44 wherein

    time axis variation of the display state of said pre-set processing unit is variably controlled based on an operating signal corresponding to the speed of rotational

actuation of said rotatable operating means.

47. The information processing method according to claim 44 wherein  
the display state of said pre-set processing unit is controlled responsive to an  
operating signal corresponding to movement actuation in said one direction of said  
operating means.

48. The information processing method according to claim 44 wherein  
the control function of the time axis of the display state of said pre-set  
processing unit derived from an operating signal corresponding to rotational actuation  
by said operating means responsive to an operating signal corresponding to movement  
actuation in one direction of said operating means.

49. The information processing method according to claim 44 wherein  
the control of the time axis of the display state of said pre-set processing unit  
derived from an operating signal corresponding to rotational actuation from said  
operating means is reversed responsive to a pre-set key operation.

50. The information processing method according to claim 44 further comprising:  
retrieving the information of the pre-set processing unit corresponding to said  
time information based on an operating signal corresponding to rotational actuation of  
said operating means.

51. The information processing method according to claim 50 wherein  
said pre-set unit in which the object information of different attributes can be  
pasted is stored in association with the time information; and wherein

the state of said pre-set processing unit is regenerated based on the information of the retrieved pre-set unit

52. The information processing method according to claim 51 wherein said object information of different attributes is the text information, speech information and the picture information including moving pictures;

    said pre-set processing unit is data for displaying a tag sheet on a display picture of a display device; and wherein

    said tag sheet is displayed on a display picture of a display device.

53. A medium for permitting an information processing apparatus to execute a program according to claim 15 including controlling the time axis of the display state of the pre-set processing unit based on an operating signal corresponding to rotational actuation of rotatable operating means.